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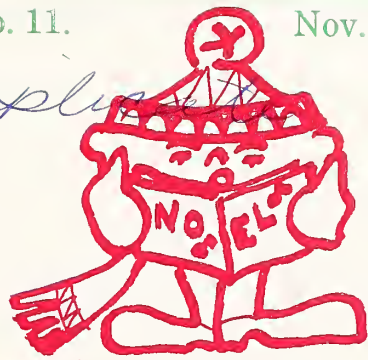
MONTANA HIGHWAY
COMMISSION

Vol. VII., No. 11.

Nov.-Dec. 1964

Duplicate

MERRY
CHRISTMAS





GOVERNOR

Tim Babcock

STATE HIGHWAY COMMISSION

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HOW EXAMINATIONS ARE CONDUCTED

Tom Walsh, Training-in-service Engineer, tells us that there are many types of tests. Generally, however, there are only two methods of administering them.

One is the "open-book" method in which emphasis is placed on time and the ability in solving problems. The other is a "closed-book" type which tests the applicants basic knowledge, and in which no time limit is placed on the solution of the problems.

It is reasonable to assume that an infinite amount of time will not make up for lack of knowledge, therefore it would seem more practical to use the "closed-book" type of examination.

An individual who has proven his competence in performing the tasks of his job is usually rewarded with advancement by his supervisor. The exam is then given to insure an established level of technical knowledge.

Comprehension of the material covered in the voluntary night school (basic engineering) will prepare anyone to adequately handle most exams up to Grade G-19, in the construction and design fields. If at all possible, the individual should find the time to take, and

AWARD SHEET Project No.	Amount of Bid	Bidder	LETTING OF OCT. 28, 1964 Address
I-IG 15-5(27) 274 Great Falls-West Side (Bridges) Cascade County	\$ 398,494.87	Sletten Construction Co.,	Great Falls, Mont.
I 15-6(8) 307 Dutton-No. & So. (Bridges and Approaches) Teton County	\$ 217,260.55	Walter Mackin & Son	Billings, Mont.
I-IG 90-2(25) 95 U1 Missoula West (G, DR, GS, CSB, PMS, PCC, Sign & Brs.) Missoula County	\$3,196,581.58	Peter Kiewit Sons' Co.	Billings, Mont.
I-IG 90-2(25) 95 U2 Missoula West (Fencing) Missoula County	\$ 49,468.55	Kober Construction Co.	Billings, Mont.
I-IG 90-5(5) 241 U1, I 90-5(8) 231 & F 69(11) Whitehall-East, West, Home- stake Pass, E. & Whitehall N. (G, GS, PMS, DR, Sign & Br.) Jefferson County	\$2,837,392.42	Nilson Smith Constr. Co.	Great Falls, Mont.
I-IG 90-5(5) 241 U2 & ROW I-IG 90-5(4) 240 Whitehall- East and West (Fencing) Jefferson County	\$ 60,846.20	Kober Construction Co.	Billings, Mont.
I-IG 90-5(5) 241 U3 Whitehall-E. & W. (Bridges) Jefferson County	\$ 373,279.14	Ralph Huckaba, Contr.	Whitehall, Mont.
F 148 (9) Saco-East (G, GS, PMS & DR.) Valley County	\$ 891,836.53	Peter Kiewit Sons Co.	Billings, Mont.
S 237 (3) Oilmont-East (G, GS, PMS & DR.) Toole County	\$ 413,654.72	S. Birch, Inc.	Great Falls, Mont.
S 426 (4) Logan-North (G, GS & DR.) Gallatin County	\$ 43,737.93	Schultz & Lindsay Cons. Co.	Billings, Mont.
ER 53(2) (F 208) Babb-Piegan (Repair Bridge & Approaches) Glacier County	\$ 72,845.50	E. F. Matelich Const. Co., Inc.	Kalispell, Mont.
ER 57(2) (F 236) Dupuyer-Birch Creek (G, GS, BST & DR.) Pondera County	\$ 34,718.80	A & B Const. Co.	Helena, Mont.
ER 57(6) (F 236) Dupuyer-Birch Creek (Bridge & Approaches) Pondera County	\$ 105,233.53	A & B Const. Co.	Helena, Mont.
ER 59(2) (F 65) Sun River-Choteau (Lengthen Existing Bridge) Teton County	\$ 42,439.52	Walter Mackin & Son	Billings, Mont.
SMP 4220-01-4310-01-23-4030 State Hiway 13W, Wolf Point (Drainage System & Retain- ing Wall Repair) Roosevelt County	\$ 11,271.00	Eskestrand Bros. Const. Co.	Havre, Mont.

AWARD SHEET Project No.	Amount of Bid	Bidder	Letting of Nov. 24, 1964 Address
I 15-1(20) 51 U1 Pipe Organ-North (G, GS, PMS, DR & Sign) Beaverhead County	\$1,745,735.27	Naranche & Konda Const. Co.	Butte, Mont.
I 15-1(20) 51 U2 Pipe Organ-North (Fencing) Beaverhead County	\$ 41,793.00	Henry D. Hildreth & Gabriel Hoyland	Dillon, Mont.
I 15-1(20) 51 U3 Pipe Organ-No. (Bridges) Beaverhead County	\$ 219,109.87	Haggerty-Messmer Co.	Bozeman, Mont.
S 35 (13) Jackson-Dillon (Grade and Drain) Beaverhead County	\$ 377,763.29	Zook Brothers Const. Co.	Great Falls, Mont.
S 405(3) Lewistown-Hanover-Judith River (G, GS, PMS, DR. & BR.) Fergus County	\$ 618,171.88	R. J. Sundling & Son, Inc.	Livingston, Mont.
ER 53(4) (S 266) Browning-Babb (Bridge) Glacier County	\$ 108,442.65	E. F. Matelich Const. Co., Inc.	Kalispell, Mont.
ER 53(5) (S 249) Starr School Route (Br. & App.) Glacier County	\$ 124,759.60	E. F. Matelich Const. Co., Inc.	Kalispell, Mont.
SMP 5199-01-64 Various (Crush & Stockpile) Chouteau, Glacier, Hill & Toole Counties	\$ 116,492.55	Snyder Const. Co.	Black Eagle, Mont.

complete, this course. The equivalent in correspondence school material is a good substitute providing the night school is not available.

In the next issue of CL, there will be more information about other courses and a few helpful hints for taking tests.

The new Interstate system is making it more and more difficult to have distant relatives.

A CHRISTMAS MESSAGE FROM THE HIGHWAY COMMISSION

One of the most rewarding experiences it is possible to enjoy is that of serving with a group of dedicated public-spirited citizens such as the members of the Montana Highway Commission.

Although we do not always agree with each other in matters pertaining to building and maintaining our highway system, yet we find that problems are resolved by discussion and adoption of the best methods of administering your funds to establish good roads in the Treasure State.

Certainly there is ONE matter in which all five of us concur, and that is our wishes for a Merry Christmas and a Happy New Year to all employees of the MHD. Your loyalty and devotion to duty is demonstrative of the high regard you have for your State.

Stanley Halvorsen, George Gosman, Joseph Nass, and R. F. Kitchingman join me in extending our wishes for a Joyous Holiday Season to all.—ROY SORRELLS.

CHRISTMAS GREETINGS FROM THE CHIEF

At this time of year when we pause, along with everyone else, to observe the birthday of the Prince of Peace, I wish to extend my best wishes for a Merry Christmas and a Happy New Year to all MHD employees. In addition to these people, I would like to transmit the same thought to all friends of the MHD. . . . the contractors, Highway Users groups, highway associations, chambers of commerce, radio, and TV stations, newspapers, wire services, and all others, both as groups and individuals, who are working for better highways.

May your holidays be pleasant, and the year to come filled with good things for all of you.

All year long we think, eat, sleep, highways. The Montana Highway Department is staffed with a group of dedicated, devoted individuals who are doing their best to build and maintain fine highways in the Treasure State.

Sincerely,
PAUL M. JOHNSON,
State Highway Engineer

R/W SCHOOLS BEING CONDUCTED

Lewis Chittim, Right of Way Engineer, reports that the R/W workshops held so far are quite successful. These two-day sessions have been conducted in Glendive, Billings and Butte.

In the class, the first day is devoted to lectures and textbook material, concentrating upon the basic fundamentals of the proper approach to successful negotiations. R/W agents are admonished to be constantly on guard to promote better Public Relations by such measures as personal appearance and conduct, and by being fully conversant with their assignments in order to discuss with intelligence the pertinent facts relating to the cases in their charge.

The second day is given over to individual, oral and written examinations and general discussion.

In addition to the training for new R/W agents, the experienced men are finding the schools valuable in the opportunity to "brush up" on their own routine and practice.

Similar workshops will be held in all District offices of the state.

LETTING DATE CHANGED

Due to the Christmas Holidays, the regular bid letting will be on Friday, December 18, instead of the usual day.

The Commission meeting will be December 16, 17 and 18.

HELENA HEADQUARTERS CHRISTMAS PARTY

Donner, Blitzen, and all those other characters are planning a visit to Helena to attend the annual Christmas party of the employees. This year it will be held at the Placer Hotel on December 18, with the friendship hour starting at 6:30. A smorgasbord dinner (all you can eat) will be served at 7:30. The price per person is \$3.00 which includes dancing to a four-piece orchestra for the balance of the evening. The committee informs us that liquid appetizers will be available all evening at 50c per . . .

All out-of-town MHD employees who wish to attend (and you are all invited), please send your request for reservation (along with your \$3.00) to *Christmas Committee, Montana Highway Department, Helena, 59601*. The RSVP cut-off date is December 15.

AASHO HOLDS ANNUAL MEETING

This year's AASHO meeting was held in Atlanta, Georgia, and the week-long session concluded just about the same time Centerline came off the press. State Highway Engineer, Paul M. Johnson, headed the delegation from the MHD including Commission Chairman Roy Sorrells, Vice-Chairman Stanley Halvorson, Commissioners Joseph Nass and R. F. Kitchingman. Don B. DeVore, Deputy State Highway Engineer, Lewis Chittim, Right-of-way supervisor and Ben Briscoe, District Engineer from Great Falls, also attended.

VEHICLES TO BE REGISTERED IN 1964

The Bureau of Public Roads issued an estimate of the number of vehicles to be registered by the end of 1964—82,699,638. This figure represents an increase of 4.2% over last year.

The estimate is based on State reports of registrations early in 1964 coupled with information on current trends, automotive production and other factors.

As of November 14, the Automobile Manufacturers Association reported that 7,881,786 motor vehicles had been produced so far this year which is about 40,000 over the same period last year despite the shutdown caused by the auto workers strike this summer.

FRED QUINNELL, Jr., HONORED

On November 6, Fred Quinnell, Jr., was honored at a banquet which was attended by over 100 MHD employees and friends. The occasion was to say "goodbye" and "good luck" to Fred after his many years with the department and upon his retirement.

Lewis Chittim was toastmaster and introduced Morris Griffith and M. R. Wickman, both of whom made short talks, recalling some of the experiences they had enjoyed with Fred in the years gone by. Ed Cowan, BPR chief, gave a fine eulogy of Fred's career, and spoke highly of his service and that of the MHD.

Lehman Fox, Construction Engineer, presented Fred with an air-conditioner for his car, on behalf of the employees.

Among those attending from out of town were district engineers Oscar Ostenson, Ben Briscoe, Milo Lahn, and R. B. Dundas.

ENGINEER UNDERGOES SURGERY

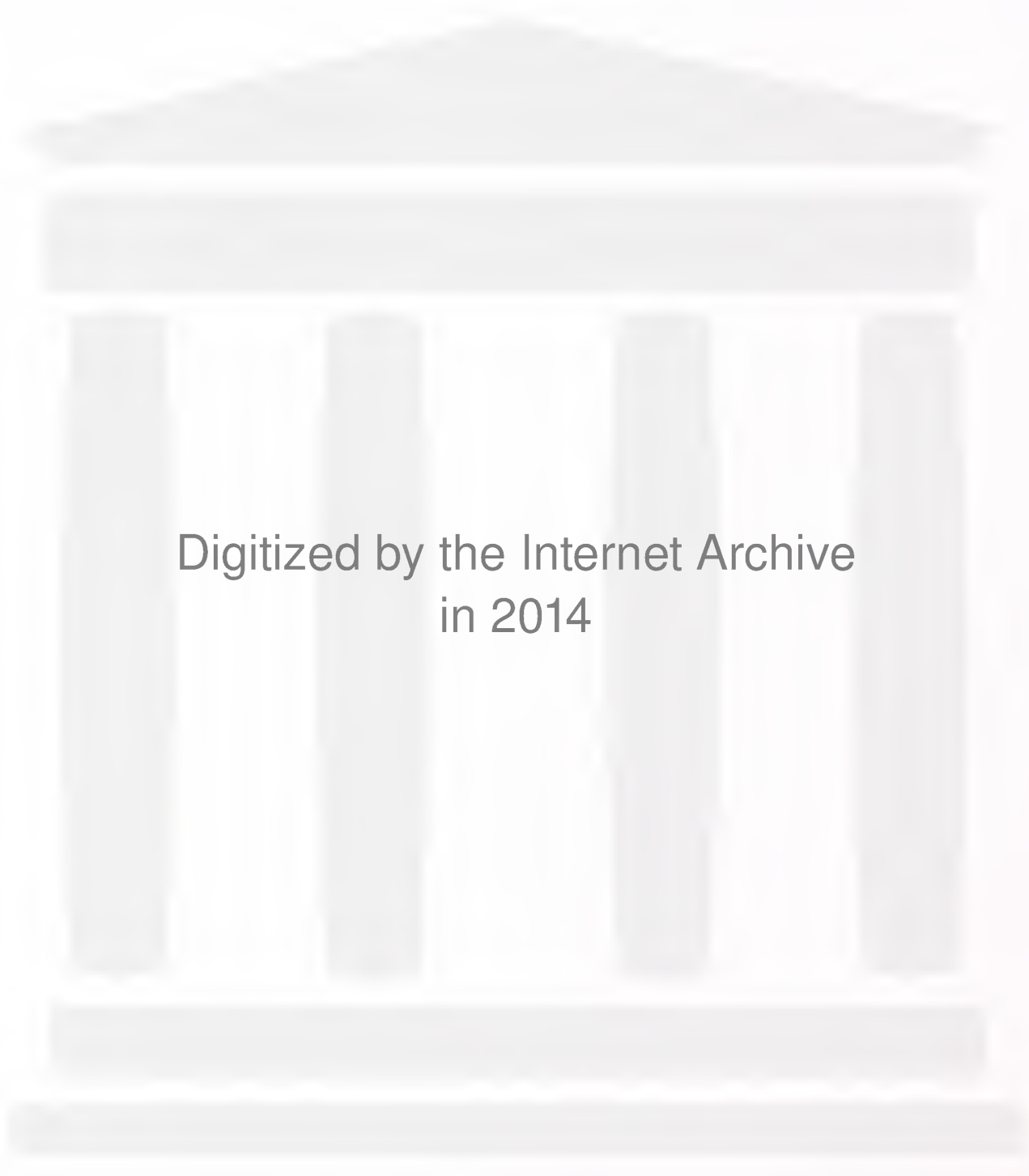
Art Zion, communications engineer, underwent a serious operation early in November, but made a remarkable recovery. Art asked us to insert the following: "When one is ill, and especially when he is hospitalized, he realizes how many friends he has. Moreover, the expressions of good cheer from the MHD employees played an important part in my recovery. I sincerely thank each and every one of the individuals who expressed their desires for my return to good health, and to the employees as a group."



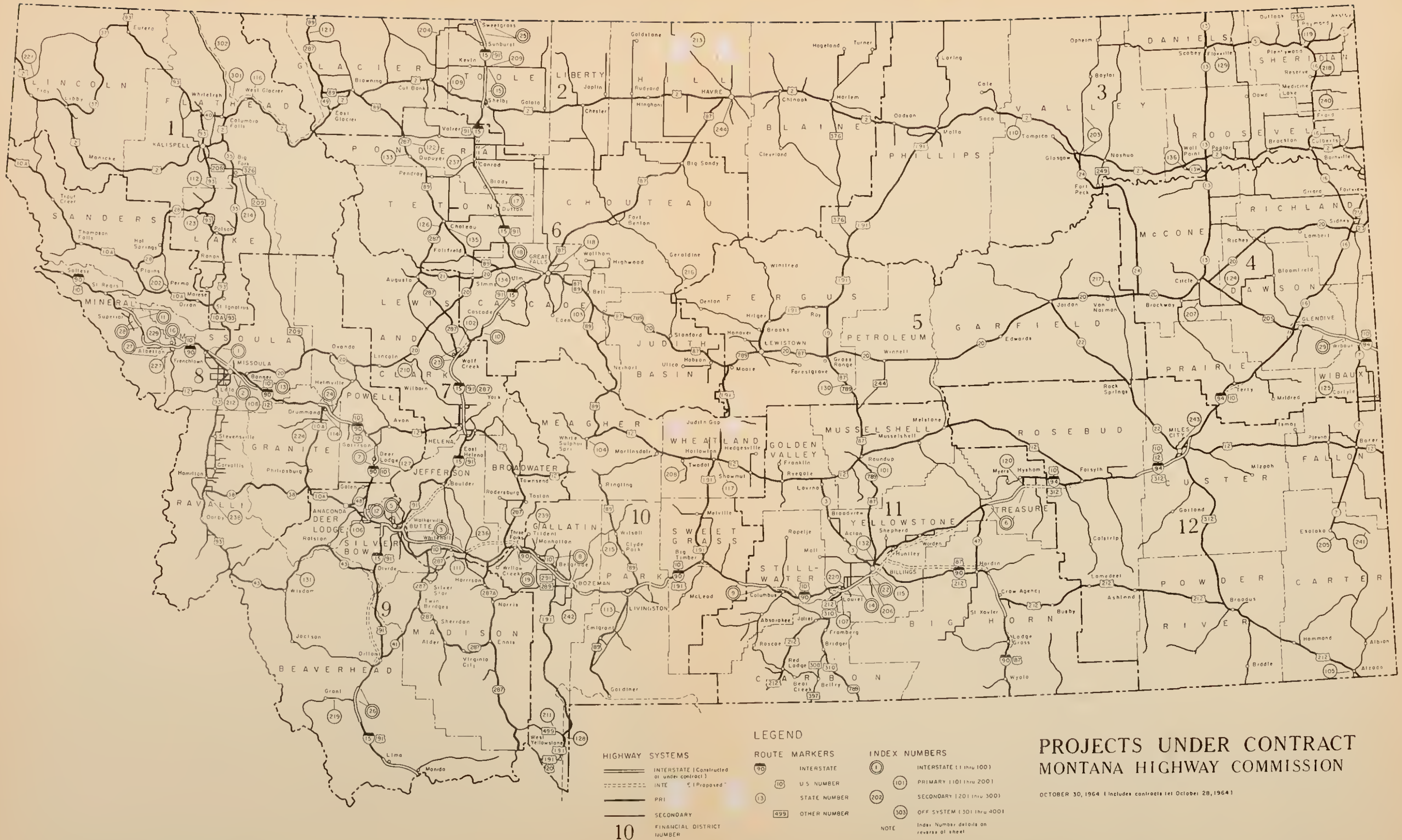
This photo shows the type of country the contractor is working in on the Interstate project at Homestake, between Butte and Whitehall.

MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH, TYPE OF CONSTRUCTION AND LOCATION
<u>FEDERAL AID PRIMARY PROJECTS</u>			
101	F 33 (6) & F 108 (9)	12-31-64	8.0 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Roundup.)
102	F 238 (10)	9-30-65	1.9 miles grade, drain, aggregate & plant mix bituminous surface. Sign. (Montana 287-Wolf Creek N.).
	F 64 (10)	9-30-65	0.2 mile repair of slide drainage. (U.S. 87-S. of Belt.).
	F 239 (13)	9-16-65	2.2 miles (0.1 mile Portland Cement Concrete pavement) grade, drain, aggregate surface & plant mix bituminous surface. (U.S. 12-White Sulphur Springs N.E.).
	F 8 (11)	9-16-65	5.2 miles grade, drain, aggregate surface & plant mix bituminous surface. Widen 25-ft. timber bridge-Four Mile Creek to 40 ft. roadway. (U.S. 12-White Sulphur Springs N.E.).
105	F 262 (14)	7-15-65	9.6 miles grade, drain, aggregate & plant mix bituminous surface. Two prestressed concrete beam bridges. One 102-ft.-Thompson Creek. One 142-ft.-Little Missouri River. (U.S. 212-Wyoming Line N.W.).
106	F-FG 68 (12) U1	12-31-64	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation. (U.S. 10A-E. of Anaconda.).
107	F 134 (6)	12-31-64	0.7 miles grade, drain, surface & plant mix bituminous surface. (U.S. 212-laurel S.).
	F 134 (7)	12-31-64	0.7 miles signing & delineation. (U.S. 212-laurel S.).
108	F 219 (18)	12-31-64	0.2 miles grade, drain, aggregate & plant mix bituminous surface. One 65-ft. prestressed concrete beam bridge-Hattlesnake Creek. (U.S. 10-in Missoula.).
109	F 220 (8)	7-16-65	3.3 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
	F 154 (6)	7-16-65	4.2 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
110	F 148 (8)	6-30-65	Three prestressed concrete beam bridges. One 172-ft.-Beaver Creek. One 355-ft.-Milk River. One 143-ft.-Milk River Overflow. (U.S. 2-E. of Saco.).
	F 148 (9)	10-31-65	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 2-E. of Saco.).
111	F 69 (11)	10-31-66	0.4 mile grade, drain, aggregate & plant mix bituminous surface. Sign. (U.S. 10-whitehall approach to I-90.).
112	F 191 (24)	8-31-65	5.9 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 93-S. of Kalispell.).
113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocation portion of NP RY tracks. (U.S. 89-S. of Livingston.).
114	F 205 (8) U1	10-31-66	1.3 miles grade, drain, aggregate & plant mix bituminous surface. Signing. (U.S. 10A-New Alignment-Drummond South.).
	F 205 (8) U2	10-31-65	Three prestressed concrete beam structures. One 301-ft.-Clark Fork. One 163-ft.-CMSTP&P RR. One 188-ft.-NP RY. (U.S. 10A-New Alignment-Drummond South.).
115	U FG 228 (16)	12-31-64	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass-NP RR. (U.S. 10-In Billings.).
	F 228 (19) U1	12-31-64	0.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10-West Billings Interchange.).
	F 228 (19) U2	12-31-64	0.6 miles fencing. (U.S. 10-West Billings Interchange.).
116	F 260 (10)	7-1-65	0.5 miles grade, drain, aggregate & road-mix bituminous surface. Support wall for slide area correction. (U.S. 2-E. of West Glacier.).
117	F 115 (14)	8-4-65	8.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & lighting. (U.S. 12-Harlowton E.).
118	F 149 (20)	12-31-64	0.4 miles signing & delineation. (U.S. 87-N. of Great Falls.).
	F 395 (3) & F 395 (5)	12-31-64	1.5 miles signing & delineation. (14th & 15th St.-In Great Falls.).
	F 149 (21) & F 395 (9)	6-1-65	Lighting & signals. (U.S. 87 & Bypass Junction-Great Falls.).
	F 180 (7)	6-1-65	Lighting & signals. (U.S. 87-E. of Great Falls.).
119	F 193 (16)	9-15-65	1.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-In Plentywood.).
120	F 114 (6)	12-31-64	2.4 miles signing & delineation. (U.S. 10-Hysham connection to Interstate 94.).
121	ER 53 (2) (F 208)	5-31-65	Repair flood damaged 122-ft. prestressed concrete beam bridge-Kennedy Creek & Road Approaches. (U.S. 89-N.W. of Browning.).
122	ER 57 (2) (F 236)	5-31-65	0.2 mile repair flood damage, grade, drain, aggregate & bituminous surface treatment. Install 12'10" S x 8'4" R. x 82" S.P.R.A.C. Culvert & Cartwright Coulee. (U.S. 87-N. of Dupuyer.).
123	F 191 (20) U1	12-31-64	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S. 93-N. of Poison.).
124	F 246 (13)	12-31-64	9.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Montana 203-S.E. of Circle.).
125	F 2 (17)	12-31-64	24.4 miles aggregate & plant mix bituminous surfacing. (Montana 7-N. of Baker.).
126	ER 59 (3)	7-31-65	One 183-ft. prestressed concrete beam bridge-Deep Creek. Road approaches. (Montana 287-S. of Choteau.).
127	F 184 (15)	12-31-64	1.1 miles seeding & mulching. (U.S. 10-N. of Deer Lodge.).
128	ERFO 41 (1) **	1964	1.0 mile grade, drain, aggregate & plant mix bituminous surfacing. One 36-ft. concrete slab bridge-Cougar Creek. (U.S. 191-N. of W. Yellowstone.).
129	F 251 (11)	9-15-65	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-Scobey E.).
130	F 27 (6) & F 28 (5)	9-15-65	6.1 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Grass Range.).
131	F 43 (17)	12-31-64	15.9 miles plant mix bituminous surface. (Montana 43-N. of Wisdom.).
132	F 53 (13) & F 230 (9)	12-31-64	2.1 miles, four-lane median divided grade, drain, aggregate & plant mix bituminous surface. (U.S. 10-Billings E.).
133	ER 57 (6) (F 236)	6-30-65	0.3 mile grade, aggregate & bituminous treatment, bridge approaches. One 123-ft. prestressed concrete beam bridge-Dupuyer Creek Overflow. (U.S. 89-N. of Dupuyer.).
134	F 176 (7)	12-31-64	5.3 miles grade, drain, surface & plant mix bituminous surfacing. (Montana 20-E. of Simms.).
135	ER 59 (2) (F 65)	9-30-65	One 60-ft. prestressed concrete beam span addition to existing 165-ft. concrete & steel pony truss bridge-Teton River. (U.S. 89-S. of Choteau.).
136	SMF 4220-01-4310-01-23-4030	6-30-65	Repair drainage system & retaining wall of underpass - GN RY. (Mont. 13W - In Wolf Point).
<u>FEDERAL AID SECONDARY PROJECTS</u>			
201	S 340 (8)	8-15-65	4.4 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Chinook).
202	S 58 (6)	8-31-65	1.1 miles grade, drain, aggregate & plant mix bituminous surface. One 650-ft. welded steel plate girder bridge-Flathead River. One 128-ft. prestressed concrete beam overpass-NP RY. (Perna North).
203	R-AD 11 (1) & S 368 (16)	9-15-65	14.9 miles grade, drain, aggregate & plant mix bituminous surface. Widen to 30-ft. roadway bridge over East Fork Cherry Creek. (Glasgow N.).
	S 368 (16)	9-15-65	14.9 miles fencing. (Glasgow N.).
204	S 316 (11)	12-31-64	7.6 miles grade, drain, aggregate & plant mix bituminous surfacing. (N. of Cut Bank).
205	S 318 (4) & S 347 (11) *	8-31-65	8.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Ekalaka S.).
206	S-SG 192 (4) U1	12-31-64	1.0 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (Connection to W. Billings Interchange).
	S-SG 192 (4) U2	12-31-64	1.0 mile fencing. (Connection to W. Billings Interchange).
	S-SG 192 (5)	12-31-64	One 190-ft. prestressed concrete beam overpass-NP RY. (S.W. of Billings).
207	S 238 (4) & S 411 (3)	8-15-65	7.9 miles grade, drain & aggregate surface. (S. of Circle).
208	S 18 (6)	12-31-64	7.3 miles grade, drain, aggregate & plant mix bituminous surface. One 112-ft. prestressed concrete beam bridge - Musselshell River. (Twodot S.).
209	F 237 (3)	9-1-65	5.9 miles grade, drain, aggregate & plant mix bituminous surface. (Jet. with I 15 9-01-65 E. - E. of Kevin).
210	S 2 (7)	6-15-65	6.2 miles aggregate & plant mix bituminous surface. (Junction Montana 20E.).
211	ERFO 41 (1) **	1964	15.6 miles grade, drain, aggregate & plant mix bituminous surfacing. Two concrete slab bridges, 75-ft.-Grayling Creek & 124-ft.-Beaver Creek. Widen 83-ft. concrete girder bridges-Cabin Creek. (N.W. of W. Yellowstone.).
212	S-SG 218 (2)	9-30-65	0.6 miles grade, drain, aggregate & plant mix bituminous surfacing. One 34-ft. concrete underpass-Dakota Street. Two 38-ft. steel underpasses-CMSTP&P RR. (Russell St.-S. of Missoula).
	S - 218 (7)	12-31-64	1.0 miles grade, drain, aggregate & plant mix bituminous surface. (Russell St.-S. of Missoula).
213	S 301 (13)	12-31-64	5.0 miles grade, drain, aggregate & plant mix bituminous surface. (N.W. of Havre).
214	S 65 (7)	12-31-64	4.9 miles aggregate & plant mix bituminous surface. (S. of Big Fork).
215	ROW S 370 (13)	12-31-64	Reset 239 rods of fencing. (W. of Wilsall).
216	S 307 (14)	12-31-64	6.1 miles grade, drain, aggregate & plant mix bituminous surface. Widen three timber bridges to 28-ft.-Little Battle Creek, two 75-ft.-Butte and Cowboy Steel Creek. (S.E. of Geraldine).
	S 307 (15)	7-15-65	5.1 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Geraldine).
217	S 264 (4)	12-31-64	Install 120" Structural Plate Pipe. (N. of Van Norman).
218	S 417 (3)	12-31-64	7.3 miles grade, drain, aggregate & plant mix bituminous surface. (S.E. of Plentywood).
219	S 85 (00) U2 & S 85 (3) U2	12-31-64	Three prestressed concrete beam bridges. One 92-ft. & 71-ft.-Horse Prairie Creek. One 71-ft.-Medicine Lodge Creek. (Armstead W.).
220	S 192 (7)	12-31-64	3.2 miles grade, drain, aggregate & plant mix bituminous surface. (N.E. of Laurel).
221	S 410 (3)	9-1-65	6.6 miles grade & drain. (N. of Troy).
224	S 413 (3)	12-31-64	1.9 miles grade, drain, aggregate & plant mix bituminous surface. One 102-ft. prestressed concrete beam bridge-Flint Creek. (S. of Drummond E.).
	S 414 (3)	12-31-64	2.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Drummond W.).
227	S 407 (2)	12-31-64	0.3 miles grade, drain & aggregate surface. One 457-ft. welded steel plate girder bridge-Clark Fork. (S.E. of Albertain).
229	S 419 (3)	11-15-65	0.9 miles grade, drain, aggregate surface. 0.7 miles plant mix bituminous surface. (Approach I 90 Separation-W. of Albertain).
236	S 9 (10)	12-31-64	3.7 miles reshape, aggregate & plant mix bituminous surface. (S. of Boulder).
237	S 107 (9)	12-31-64	7.0 miles grade, drain, aggregate & plant mix bituminous surface. Widen timber bridge to 32-ft. roadway. (N.E. of Conrad).
238	S 400 (3)	12-31-64	6.4 miles grade & drain. (S. of Hamilton E.).
	S 400 (4)	12-31-64	6.4 miles aggregate & plant mix bituminous surface. (S. of Hamilton E.).
239	S 426 (3)	12-31-64	One 198-ft. prestressed concrete beam bridge-Gallatin River. (N.E. of Manhattan).
	S 426 (4)	8-31-65	0.2 mile grade, drain, aggregate surface approaches to Gallatin River bridge. (N.E. of Manhattan).
240	S 415 (3)	12-31-64	6.0 miles grade, drain, aggregate surface. One 225-ft. prestressed concrete beam bridge-Lake Creek. (E. of Medicine Lake).
241	S 194 (4)	6-30-65	0.3 miles grade, drain, aggregate surface. One 225-ft. prestressed concrete beam bridge-Box Elder Creek. (E. of Ekalaka).
242	S 243 (3)	7-15-65	6.5 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Bozeman).
243	S 388 (5)	9-15-65	9.5 miles grade, drain, & aggregate surface. (NE of Miles City).
244	US 70 (4)	12-31-64	0.7 miles grade, drain, aggregate & plant mix bituminous surface. (Fifth Avenue in Havre).
248	S 402 (3)	12-31-64	7.8 miles grade, drain, surface, plant mix bituminous & seal coat oiling. (N.E. of Culbertson).
<u>OFF SYSTEM PROJECTS</u>			
30	GNP 8-A4 *	1965	One 403-ft. prestressed concrete beam bridge-N. Pk. Flathead River. (In Glacier Park).
	GNP 8-A5 *	1965	8.5 miles grade, drain & base. (In Glacier Park).
302	ERFO 63 (1) *	1966	Reconstruct seven bridges & repair one bridge. (In Glacier Park).

* - Bureau of Public Roads Projects.
 ** - Bureau of Public Roads Projects. - Map Index Numbers 128 & 211 one contract.



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in 2014



INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH, TYPE OF CONSTRUCTION AND LOCATION	MAP INDEX NUMBER	PROJECT NUMBER	PROBABLE COMPLETION DATE	LENGTH, TYPE OF CONSTRUCTION AND LOCATION
FEDERAL AID INTERSTATE PROJECTS				FEDERAL AID PRIMARY PROJECTS			
1	1-10 90-2 (25) 95 U1	10-31-66	7.8 miles four-lane divided, grade, drain, cement base stabilization, aggregate surface, plant mix bituminous and Portland Cement Concrete paving. Signing. Nine prestressed concrete structures. One 321-ft. Underpass-Bee Smet Interchange, dual 135-ft. overpass - NF RY, dual 138-ft. overpass-County Road, dual 195-ft. overpass-Grant Creek & Interchange, two 32-ft. bridges - Grant Creek on Interchange ramps. (New alignment-1 90-W. of Missoula).	101	F 33 (6) & F 108 (9)	12-31-64	8.0 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Roundup.)
2	1-10 90-2 (25) 95 U2	10-31-66	7.8 miles fencing. (New alignment-1 90-W. of Missoula).	102	F 238 (10)	9-30-65	1.9 miles grade, drain, aggregate & plant mix bituminous surface. Sign. (Montana 287-Wolf Creek N.).
	1 90-2 (14) 105	12-31-64	472 ft. of 24 inch K.C.P. Storm Sewer. (Van Buren St.-In Missoula).		F 64 (10)	9-30-65	0.2 mile repair of slide drainage. (U.S. 87-S. of Belt.).
	1-10 90-2 (14) 105 U1	10-15-65	4.9 miles grade, drain, cement base stabilization, aggregate surface, Portland Cement Concrete pavement and plant mix bituminous surface. One 88-ft. steel & concrete NF RY overpass - Van Buren Street. Signing & lighting. (New alignment-1 90-Missoula E.).		F 239 (13)	9-10-65	2.2 miles (0.1 mile Portland Cement Concrete pavement) grade, drain, aggregate surface & plant mix bituminous surface. (U.S. 12-White Sulphur Springs N.E.).
3	1-10 90-2 (14) 105 U4	10-15-65	4.9 miles fencing. (New alignment-1 90-Missoula E.).	105	F 8 (11)	7-10-65	5.2 miles grade, drain, aggregate surface & plant mix bituminous surface. Hidden 25-ft. timber bridge-Four Mile Creek to 40 ft. roadway. (U.S. 12-White Sulphur Springs N.E.).
	1-10 90-2 (14) 105 U2	6-30-65	Three dual prestressed concrete beam overpasses. Two 165-ft.-Van Aulen St. Interchange. Two 194-ft.-East Missoula Interchange. Two 130-ft.-County Road Separation. (New alignment-1 90-Missoula E.).	106	F-PG 68 (12) U1	12-31-64	9.6 miles grade, drain, aggregate & plant mix bituminous surface. Two prestressed concrete beam bridges. One 102-ft.-Thompson Creek. One 142-ft.-Little Missouri River. (U.S. 212-Myotom Line N.W.).
	1 90-4 (8) 226 U1	9-30-65	2.8 miles four-lane divided, grade, drain, cement stabilized base, aggregate surface, plant mix bituminous surface & concrete pavement. (New alignment-1 90-Butte S.E.).	107	F 134 (6)	12-31-64	2.7 miles (four-lane divided) grade, drain, surface, plant mix bituminous surface. Signing & delineation. (U.S. 10A-E. of Anaconda.).
4	1 90-4 (8) 226 U2	9-30-65	2.8 miles fencing. (New alignment-1 90-Butte S.E.).	107	F 134 (7)	12-31-64	0.7 miles grade, drain, surface & plant mix bituminous surface. (U.S. 212-Laurel S.).
	1 90-4 (10) 229 U1	8-30-65	2.6 miles four-lane divided, grade, drain, aggregate surface, plant mix bituminous surface. Signing. (New alignment-1 90-Butte S.E.).	108	F 134 (7)	12-31-64	0.7 miles signing & delineation. (U.S. 212-Laurel S.).
	1 90-5 (6) 231 U1	8-30-65	2.3 miles four-lane divided, grade, drain, aggregate surface, plant mix bituminous surface. One 230-ft. prestressed concrete beam underpass. Hoosetown Interchange. Signing. (New alignment-1 90-Butte S.E.).	108	F 219 (18)	12-31-64	0.2 miles grade, drain, aggregate & plant mix bituminous surface. One 65-ft. prestressed concrete beam bridge-Millionaire Creek. (U.S. 10-In Missoula.).
5	1 90-5 (7) 233 U1	8-30-65	7.1 miles four-lane divided, grade, drain, aggregate surface, plant mix bituminous surface. Dual 12-ft. prestressed concrete beam overpass-Pipestone Interchange. (New alignment-1 90-Butte S.E.).	109	F 220 (8)	7-10-65	3.3 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
	1 90-4 (10) 229 U2	7-30-65	2.6 miles fencing. (New alignment-1 90-Butte S.E.).	110	F 154 (6)	7-10-65	4.2 miles grade, drain, aggregate surface, & plant mix bituminous surface. (U.S. 2-E. of Cut Bank.).
	1 90-5 (6) 231 U2	7-30-65	2.3 miles fencing. (New alignment-1 90-Butte S.E.).		F 148 (8)	6-30-65	Three prestressed concrete beam bridges. One 172-ft.-Beaver Creek. One 155-ft.-Milk River. One 143-ft.-Milk River overflow. (U.S. 2-E. of Saco.).
6	1 90-5 (7) 233 U2	7-30-65	7.1 miles fencing. (New alignment-1 90-Butte S.E.).		F 148 (9)	10-31-65	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 2-E. of Saco.).
	1 90-5 (8) 231	10-31-66	2.6 miles grade, drain, aggregate surface. Signing. (Moose Creek Access Road to I 90).	111	F 69 (11)	10-31-66	0.4 mile grade, drain, aggregate & plant mix bituminous surface. Sign. (U.S. 10-Whitell approach to I-90.).
	1 90-5 (5) 241 U1	10-31-66	9.6 miles four-lane divided, grade, drain, aggregate & plant mix bituminous surface, signing. One 275-ft. prestressed concrete beam - Underpass-County road. (New alignment-1 90-Whitell E. & W.).	112	F 191 (24)	6-31-65	5.9 miles grade, drain, aggregate & plant mix bituminous surfacing. (U.S. 93-W. of Kalispell.).
7	1 90-5 (5) 241 U2	11-30-65	9.6 miles fencing. (New alignment-1 90-Whitell E. & W.).	113	F 217 (11)	10-15-65	9.2 miles grade, drain, aggregate & plant mix bituminous surface. Relocation portion of NF HI tracks. (U.S. 89-W. of Livingston.).
	1-10 90-5 (5) 241 U3	7-31-66	Dual 315-ft. steel girder overpasses-NF RY. Four prestressed concrete beam bridges, Dual 108 ft.-County Road, Dual 128 ft.-Whitell Interchange. (New alignment-1 90-Whitell E. & W.).	114	F 205 (8) U1	10-31-66	1.3 miles grade, drain, aggregate & plant mix bituminous surface. Signing. (U.S. 10A-New Alignment-Drummond South.).
	1-10 15-2 (16) 126 U2 & 1 115-2 (2) 126 U2	12-31-64	Five structures, two prestressed concrete beam overpasses, one 301 & 321 ft. b&P RY. & CN&TP&P RY, three steel & concrete overpasses, one 442 & 429-ft. NF RY. & Clark Fork, one 244-ft. d. Butte Interchange. (1 15-Butte N.).	115	U PG 228 (16)	12-31-64	1.5 miles grade, drain, cement stabilized base, surface, concrete pavement, plant mix bituminous, seal coat oil. One concrete underpass-NF RR. (U.S. 10-In Billings.).
8	1-10 15-2 (16) 126 U3	12-31-64	2.2 miles fencing. (1 15-Butte N.).		F 228 (19) U1	12-31-64	0.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & delineation. (U.S. 10-west Billings Interchange.).
	1-10 15-2 (16) 126 U4	12-31-64	0.4 miles fencing. (1 15-Butte N.).	116	F 228 (19) U2	12-31-64	0.6 miles fencing. (U.S. 10-west Billings Interchange.).
	1-10 15-2 (18) 131 U1	7-31-66	Dual 165-ft. steel & concrete overpasses - NF RY & CN&TP&P RY. (1 15-Butte N.).	117	F 260 (10)	7-1-65	0.5 miles grade, drain, aggregate & road-mix bituminous surface. Support wall for slide area correction. (U.S. 2-E. of west Glacier.).
9	1-10 15-2 (18) 131 U2	7-31-66	3.6 miles grade, drain, cement stabilized base, aggregate & plant mix bituminous surfacing. One 230-ft. steel & concrete overpass NF RY. Signing. (New alignment-1 15-Butte N.E.).	118	F 115 (14)	8-1-65	8.6 miles grade, drain, aggregate & plant mix bituminous surface. Signing & lighting. (U.S. 12-Hartington E.).
	1 90-4 (12) 126	12-31-64	5.5 miles signing, delineation & lighting. (1 15-W. of Butte E.).		F 149 (20)	12-31-64	0.4 miles signing & delineation. (U.S. 87-N. of Great Falls.).
	1 90-4 (7) 50	12-31-64	1.3 miles signing & delineation. (New alignment-1 90-W. of Hysham).	119	F 395 (3) & F 395 (5)	7-1-65	1.5 miles signing & delineation. (11th & 15th St.-In Great Falls.).
10	1 90-4 (8) 50	12-31-64	1.3 miles grass seeding & mulching. (New alignment-1 90-S.W. of Hysham).		F 429 (21) & F 395 (9)	6-1-65	Lighting & signals. (U.S. 87 & Bypass Junction-Great Falls.).
	1 90-4 (5) 55 U1	12-31-64	0.4 miles (4.0 miles four-lane divided) grade, drain, surface, plant mix bituminous surfacing. (New alignment-1 90-S.W. of Hysham).	120	F 180 (7)	7-1-65	Lighting & signals. (U.S. 87-E. of Great Falls.).
	1 90-4 (5) 55 U2	12-31-64	6.4 miles fencing. (New alignment-1 90-S.W. of Hysham).	121	F 193 (16)	7-15-65	1.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-In Plentywood.).
11	1 90-4 (7) 51	12-31-64	16.2 miles signing & delineation. (New alignment-1 90-S.W. of Hysham).	122	F 114 (6)	12-31-64	2.4 miles signing & delineation. (U.S. 10-Hysham connection to Interstate 74.).
	1 90-4 (9) 51	5-15-65	8.2 miles grass seeding & mulching. (New alignment-1 90-S.W. of Hysham).	123	ER 57 (2) & F 208	5-31-65	Repair flood damaged 122-ft. prestressed concrete beam bridge-Kennedy Creek & Road Approaches. (U.S. 89-N.W. of Browning.).
	1 90-6 (33) 298 U1	9-15-65	4.4 miles, grade, drain, cement base stabilization, aggregate surface, Portland Cement Concrete Pavement & plant mix bituminous surface. Four prestressed concrete beam structures, dual 113-ft. overpass-County road, dual 245 ft. underpasses - U.S. 10 - N. Bozeman Interchange. (New alignment-1 90-Belgrade to Bozeman).	124	ER 57 (2) & F 236	5-31-65	0.2 mile repair flood damage, grade, drain, aggregate & bituminous surface treatment. Install 12'10" x 8'4" x 82" -P.A.A... Culvert & Cartwright Coulees. (U.S. 87-N. of Dupuyer.).
12	1 90-6 (13) 296 U2	9-15-65	8.4 miles fencing. (New alignment-1 90-Belgrade to Bozeman).	125	F 191 (20) U1	12-31-64	7.3 miles (2.5 miles grade & drain) surface, plant mix bituminous & seal coat oiling. (U.S. 13-N. of Bozeman.).
	1-10 90-6 (14) 287 U1	9-30-65	7.5 miles four-lane divided, grade, drain, cement stabilized base, aggregate surface, Portland Cement Concrete Pavement & plant mix bituminous surface. Signing. (New alignment-1 90-Manhattan to Belgrade).	126	F 240 (13)	12-31-64	7.2 miles grade, drain, aggregate & plant mix bituminous surfacing. (Montana 20-W. of Circle.).
	1-10 90-6 (14) 287 U2	7-31-65	8.4 miles signing. (New alignment-1 90-Belgrade to Bozeman).	127	F 2 (17)	12-31-64	24.4 miles aggregate & plant mix bituminous surfacing. (Montana 7-N. of Laver.).
13	1-10 90-6 (14) 287 U3	7-31-65	7.5 miles fencing. (New alignment-1 90-Manhattan to Belgrade).	128	ER 59 (3)	7-1-65	One 187-ft. prestressed concrete beam bridge-Deep Creek. Road approaches. (Montana 287-W. of Umatilla.).
	1-10 90-6 (14) 287 U4	7-31-65	Five prestressed concrete beam structures, dual 113-ft. Hoob Lane Separation, dual 113-ft. Central Park South Separation, one 235-ft. Belgrade Interchange. (New alignment-Manhattan to Belgrade).	129	F 184 (15)	12-31-64	1.1 mile seeding & mulching. (U.S. 10-N. of Deer Lodge).
	1-10 90-6 (14) 287 U5	7-31-65	Six prestressed concrete beam structures, dual 82-ft.-Camp Creek, dual 92-ft.-Baker Creek, dual 90-ft. west Gallatin River. (New alignment-1 90-Manhattan to Belgrade).	130	ERFD 41 (1) **	1964	1.0 mile grade, drain, aggregate & plant mix bituminous surfacing. One 36-ft. concrete slab bridge-Cougar Creek. (U.S. 131-N. of Yellowstone.).
14	1 90-7 (8) 387 U3	12-31-64	5.9 miles fencing. (U.S. 10-W. of Columbus).	131	F 451 (11)	7-15-65	7.6 miles grade, drain, aggregate & plant mix bituminous surface. (Montana 5-Cobey E.).
	1-10 90-8 (12) 388 U4	12-31-64	4.6 miles fencing. (U.S. 10-W. of Columbus).	132	F 27 (6) & F 28 (5)	7-15-65	0.1 miles grade, drain, aggregate & plant mix bituminous surface. (U.S. 87-S. of Grass Range.).
	1 90-7 (13) 387 & 1 90-8 (12) 388	5-15-65	10.5 miles seeding & mulching. (U.S. 10-W. of Columbus).	133	F 43 (17)	12-31-64	15.9 miles plant mix bituminous surface. (Montana 43-N. of Hedges.).
15	1 90-7 (13) 387 & 1 90-8 (12) 388	5-15-65	15'4" x 10'10" structural plate pipe arch culvert. (U.S. 91-N. of Wolf Creek).	134	F 53 (13) & F 230 (9)	12-31-64	2.1 miles, four-lane median divided grade, drain, aggregate & plant mix bituminous surface. (U.S. 10-Billings E.).
	1 15-5 (25) 238	12-31-64	6.7 miles seeding & mulching. (U.S. 10-W. of Superior).	135	ER 57 (2) & F 236	6-30-65	0.3 mile grade, aggregate & bituminous treatment, bridge approaches. One 122-ft. prestressed concrete beam bridge-Dupuyer Creek Overflow. (U.S. 89-N. of Dupuyer.).
	1 90-1 (16) 43	12-31-64	4.5 miles four-lane divided, grade, drain, cement stabilized base, surface & plant mix bituminous surfacing. Frontage Road. Rest Area, signing & delineation. (U.S. 10-S. of Deer Lodge).	136	F 176 (7)	12-31-64	5.3 miles grade, drain, surface & plant mix bituminous surfacing. (Montana 20-E. of Jamez.).
16	1-10 90-4 (7) 205 U1	12-31-64	4.5 miles fencing. (U.S. 10-S. of Deer Lodge).	137	SKP 4220-01-4310-U1-23-4030	6-30-65	One 60-ft. prestressed concrete beam span addition to existing 165-ft. concrete & steel pony truss bridge-Teton River. (U.S. 89-S. of Optima.).
	1 90-2 (20) 100	12-31-64	7.1 miles signing & delineation. (New alignment-1 90-W. of Bonner E.).				Repair drainage system & retaining wall of underpass - GR RY. (Mont. 13W - In Wolf Point).
	1 90-2 (22) 108	6-31-65	Four continuous welded steel plate girder bridges, dual 455 ft. & dual 404 ft.-Clark Fork. (New alignment-1 90-W. of Bonner E.).	201	S 340 (8)	8-15-65	4.4 miles grade, drain, aggregate & plant mix bituminous surface. (S. of Chinook).
17	1						

ANOTHER HIGHWAY "YOUNGSTER" MAKES GOOD



Linda Kelley, daughter of Robert Kelley in the Office Engineers department, was elected 1964 Homecoming Queen at Carroll College in Helena, recently.

Linda is a major in medical technology, and is a junior this year. She was crowned during the half-time ceremonies of the

Carroll-Rocky Mountain football game.

Her other activities include Pre-Med club, student council, and a member of the Spurs.

Centerline salutes Lindy Kelley!

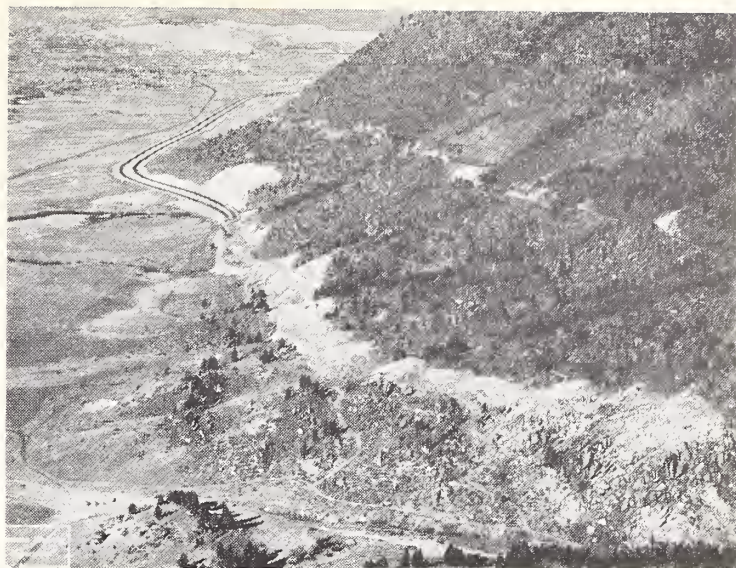


Here is a birds-eye view of the progress being made on the Billings Heights project. It is scheduled for completion next June.

MHUC TO MEET IN HELENA

Pre-legislative meeting of the Montana Highway Users Conference will be held in Helena on December 18, according to Ray Reavely of Great Falls, chairman. The conference, meeting at Jorgenson's at 10:30 a. m., will discuss highway finance and safety matters and consider support of highway proposals anticipated in the legislative session.

Commission chairman, Roy Sorrells and chief counsel, Donald MacPherson will be speakers and will discuss anticipated highway needs.



With Butte in the background, this view shows the Butte-East Interstate project making headway toward Whitehall. The upper level of cuts and fills is the NPRR.

HOLIDAY SAFETY!

The trucking industry has joined the campaign to promote safety on the highways. Centerline receives a copy of their press kit each month, and for December this dispatch gives some mighty sound advice for the holiday season: "While Christmas is the most joyous holiday of the year, the record shows that traffic-wise, it is also the year's most dangerous holiday."

"With the assurance of a three-day week end for practically everyone, and with many able to get all or part of the day off on December 24, there is an opportunity for Christmas trips that may lead to record travel with resulting congestion on all highways, and possibly accidents.

"However, with proper planning and with ordinary common sense along the way, there is no need for a Christmas highway trip to end in tragedy.

"The following three guides can be advantageous in planning a safe holiday trip:

1. Don't attempt to cover too great a distance. Use a basic allowance of three hours for every 100 miles, and figure that this may be increased substantially if bad weather develops.

2. Expect bad weather. If it develops enroute, stop in the first safe place, rather than attempting to keep going and risk getting marooned.

(Continued on page 10)

SAFETY

(Continued from page 9)

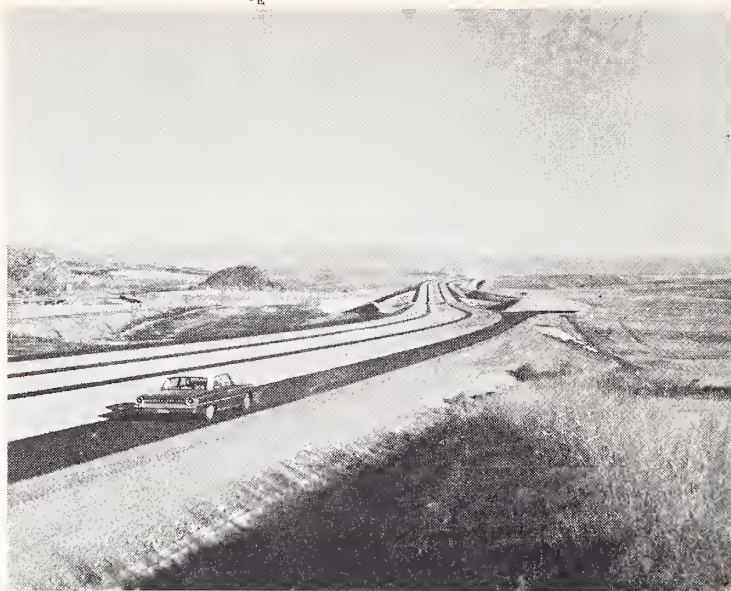
3. Be sure your car is in good travel condition. Have any needed services performed before you start. When traveling in cold weather, check your anti-freeze. Snow tires are a "must" and tire chains should be in every car.

To these admonitions from the trucking industry, we might add that Montana radio and TV stations, as well as the newspapers, are very generous in the amount of publicity they give to road conditions and weather reports. By reading and listening, the motorist can become aware of up-to-the-minute conditions.

Another precaution to observe is highway plowing and sanding crews working on the roadway. Don't follow the plow too closely. Many tragic accidents have occurred from "tailgating" a sanding vehicle, or from trying to pass when a cloud of snow obscures vision ahead.



The Mlies City-Kinsey project looks like this from the air. This secondary project is scheduled for completion the middle of Dec.



Very soon, now, traffic will be able to use the new four-lane divided Interstate highway east of Three Forks. This view shows the concrete traffic lanes and the asphalt shoulders, looking toward the Logan Interchange. The NPRR overpass now on the PTW can be seen at extreme left.



Last month's Centerline told about the farewell party for Minnie Convery. Here is a picture taken at the dinner showing Mrs. Michels, George Duffy, and Minnie.

PICTURES SHOW HIGHWAY PROGRESS

More than 20 displays of pictures have been erected throughout the state to illustrate the construction and maintenance of Highways in Montana. These displays each contain six pictures, which are changed frequently to afford a change of "scenery" to the viewers.

They are to be seen in bank lobbies, hotels, and other places where they can be observed by people.

Jonas-Johnson, who works out of the Information office in Helena, keeps the pictures fresh, and on a rotating schedule throughout the state. He also supervises the construction of the displays which are used at the county fairs each year.

OCTOBER SERVICE AWARDS

H. L. Morrison of Bozeman heads the list of service for October, with 35 years of service. Three 30-year pins were awarded to: Ernest R. Cox, Theodore Kieckbusch and Ralph C. Sherman. Those who have been with the department for a quarter of a century are Harvey S. Embody, Lehman B. Fox, James D. Huffman, Elmer D. Willeiver and Herbert C. Wilcox. 20-year awards went to Samuel Fisher, Archie P. Kelly, and John W. Miller. 15-year employees are William C. Hughes, Karl F. Lindgren and William E. Swanton. 10-year people are John W. Cloud, Paul L. Collins, Fred K. Delano, Ernestine M. Dorner, Eugene M. Duncan, Leslie S. Harris, Jr., Louis Edwan Maack, Evert Owen Spragins, Donald L. Watson and Arley M. Wiseman. For 5-years of service: Harold E. Alexander, Stephen E. Axtman, Thomas F. Barlow, Earl J. Brown, Dale E. Conover, Norman C. Dalry, Marjorie E. Fall, Jim L. Fletcher, Wayne M. Gryde, Alice M. Hesser, Ralph A. Kaze, Bronson C. Lamoure, Albert L. McComb, Donald G. Millhouse, James D. Poston, Duane D. Rossmiller, James Howard Taylor, Thomas E. Tobin, Earl W. Valentine and Victor A. Wolf.

NEWS FROM THE DIVISIONS

BOZEMAN

Just recently, the Bozeman office was delighted with a visit from the newest member of the Brenden household. There were a lot of oh's and ah's from we gals, but we also noticed the men in the office were anxious to see little Jeffrey Alan Brenden, who was born to Gunner and Bernice Brenden on November 3, 1964. The little fellow weighed 6 lbs. 2 oz. and has three proud brothers to help take care of him. "Gunner" Brenden is a Clerk V in the Bozeman Division office. Congratulations to the Brendens from the whole Bozeman Division.

With the hunting season being here, we can't let our mighty hunters down without a word of praise. As per usual, there were many of the employees in this area who brought home their trophy, including deer, elk, antelope and the sometimes (nothing). This writ-

er has not been able to make contact with all employees so in fairness to all from this Division, will not mention the names of those bringing home their game.

LEWISTOWN

Am writing you in regard to the article "saluting" me in the October "Centerline." Thank you, but Archie Stanton, a fellow mechanic, was with me at the time Roger Duncan was hurt and I believe it was between the two of us that Dunc came through alive.

Sincerely yours,

LLOYD T. HEINTZ.

P. S. We really enjoy the Centerline.

GLENDIVE



This picture is the smiling, frost-covered face of our 64-year-old Division Engineer, J. R. Rountree, who is displaying his appropriately decorated cake presented to him by the office personnel for his birthday.

Victor and Shelly Wolf are the happy and proud parents of a 7-lb. 4-oz. baby boy—David John, born on October 20th.

We also have another late congratulations to extend to the Donald Hartzogs, as his wife Eileen presented him with his first and only young 'un—a 7-lb. 9-oz. baby boy—by name of what else—Donald Ernest Hartzog. He accepted his slap into the world on the 14th of October. Congratulations from all of us.

ENGINEER IS ALSO WRITER

Thomas Ratchford, maintenance engineer, has had in article published in the *Public Works* magazine, August issue, entitled "Winter Maintenance in the Rockies."

The author tells how Montana combats the snow and ice conditions on the highways, and a few paragraphs have been lifted from the article to be reproduced here.

"Slightly more than one-eighth of our annual budget is devoted to snow removal and sanding. During the 1962-63 winter season, we expended \$634,688 for snow removal and

(Continued on page 12)

WRITER, ENGINEER

(Continued from page 11)

\$574,219 for sanding. This averages roughly \$19.4 per mile for the 6,229 miles covered.

"Our present equipment inventory includes 96 4-wheel drive trucks in the 2 to 7 ton classification, 365 two-wheel drive dump trucks, 366 rigid or reversible snow plows, 38 v-plows, 78 snow wings, 155 sand spreaders and 16 salt spreaders.

"We are fortunate in having well-equipped shops and good mechanics who keep the equipment rolling throughout the winter and get it ready for the next season's onslaught.

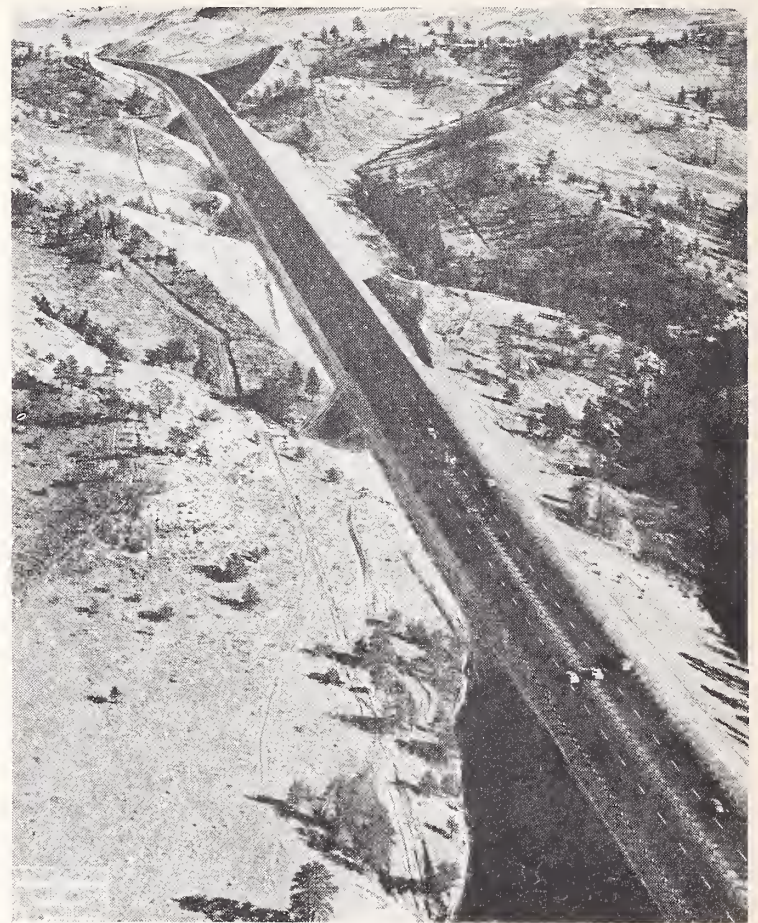
"The real work-horse on most of our older 20-24 ft. roads is the 3-ton truck, loaded with sand for ballast and fitted with one-way blades.

"On the primary highways built to modern design with 36-foot roadways, and on the Interstate highways, we still use 2-ton trucks in tandem.

"The 146,000 square mile area of Montana is controlled by a very fine and efficient communications network. All our operative vehicles have two-way radio contact with their respective Division headquarters.

"Until highways can be underlaid with

steam pipes or electric heating grids, we will just have to plow snow and spread sand, salt or calcium chloride.



The Interstate project east of Big Horn will shorten the driving time between Billings and Miles City, and will provide a much safer route, too.

The Center Line

STATE HIGHWAY DEPARTMENT

Helena, Montana 59601



BULK RATE

U. S. Postage

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Helena, Montana

Permit No. 35